

METRIC

MIL-F-49291/6 (NAVY)

11 May 1989

MILITARY SPECIFICATION SHEET

FIBER, OPTICAL, TYPE MM (GRADED INDEX, GLASS CORE AND GLASS CLADDING, MULTIMODE) (METRIC)

This specification is approved for use by the Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation: MIL-F-49291.

CLASSIFICATION

Optical fiber type: MM (Graded-index, glass core and glass cladding, multimode).

Optical fiber core and cladding size: B (62.5/125 micrometers (μm), multimode).

DESIGN AND CONSTRUCTION

Dimensions: See figure 1.

PERFORMANCE REQUIREMENTS

Attenuation rate: ≤ 1.0 decibel per kilometer (dB/km) at $1.310 \pm 0.020 \mu\text{m}$.

Mode field diameter: N/A.

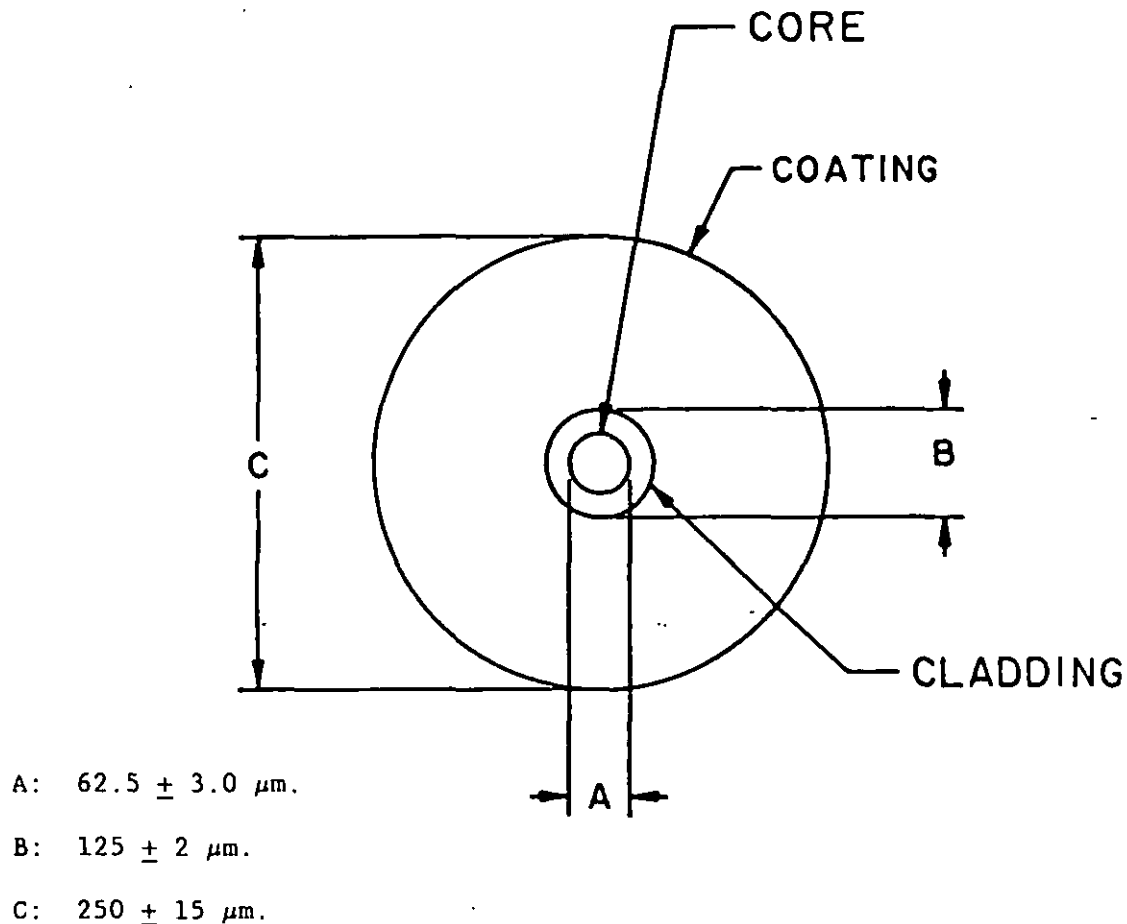
Dispersion: N/A.

Cut-off wavelength: N/A.

AMSC N/A

FSC 6010

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.



SH 13232043

FIGURE 1. Optical fiber.

ENVIRONMENTAL REQUIREMENTS

Temperature range: 2 (Operating: minus 28 to plus 85 degrees Celsius ($^{\circ}\text{C}$)
Storage: minus 62 to plus 85 $^{\circ}\text{C}$)

IDENTIFICATION MARKING: N/A.

PART IDENTIFYING NUMBER: M49291/01-006.

PART DESIGNATOR: MMB.

Review activities:
Navy - EC, YD

Preparing activity:
Navy - SH
(Project 6010-N004-1)